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 PRODUCT-DETAILS

## DS201 C16 A30

### Residual Current Circuit Breaker with Overcurrent Protection - 1P+N - Type A - 30 mA - 16 A - C




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**General Information**

Extended Product Type	DS201 C16 A30
Product ID	2CSR255180U1164
EAN	8012542737414
Catalog Description	Residual Current Circuit Breaker with Overcurrent Protection - 1P+N - Type A - 30 mA - 16 A - C
Long Description	The DS201 series is a 1P+N RCBO in two-modules width for the protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

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**ABB EcoSolutions**

ABB EcoSolutions	Yes
EcoSolutions Profile	9AKK108470A2163
Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource Loops - Standard EN45555 - 75.20 %
ABB Site Meeting Group Waste To Landfill Target	No non-hazardous waste is sent to a landfill UL 2799 Zero Waste To Landfill Validation available
Sustainable Material	Recycled Cardboard - 98 %

Content in Packaging (wt. %)	Recycled Paper - 00 % Chemically Recycled Polymer - 00 %
Extended Product Lifetime	Product Durability
End Of Life Disassembling Instructions	9AKK108469A2268
Environmental Product Declaration - EPD	9AKK108468A5756

## Technical

Type of Residual Current	Type A
Test Voltage (Ut)	170 ... 264 V
Dielectric Test Voltage	2 kV
Rated Ultimate Short- Circuit Breaking Capacity (I <sub>cu</sub> )	10 kA
Rated Residual Breaking Capacity (I <sub>Δm</sub> )	EN 61009-1 6000 A IEC 61009-1 6000 A
Rated Service Short- Circuit Breaking Capacity (I <sub>cs</sub> )	7.5 kA
Rated Service Short- Circuit Breaking Capacity, in % of I <sub>cu</sub> (I <sub>cs</sub> )	6 kA
Power Supply Connection	Arbitrary
Contact Position Indication	Red ON / Green OFF
Energy Limiting Class	3
Electrical Endurance	10000 cycle
Mechanical Endurance	20000 cycle
Number of Protected Poles	1
Number of Poles	1P+N
Number of Modular Spacings per DIN Rail	2
Fault Indication	Blue Flag on Toggle
Operating Characteristic	Instantaneous
Position of Neutral Terminals	Right
Tightening Torque	2.8 N·m
Accessory Type	Auxiliary contact, Signal contact / auxiliary contact, Shunt trip, Auxiliary contact for bottom fitting, Overvoltage release, Motor operating device
Actuator Type	Toggle - Insulation group II, Black RAL 9005, sealable in ON-OFF positions
Earthing Switch Type	Undelayed
Housing Type	Insulation group I - II, RAL 7035
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Options Provided	Unpacked
Accessories Available	Yes
Number of Batteries	0
Connecting Capacity	Busbar 10 ... 10 mm <sup>2</sup> Stranded 0.75 ... 25 mm <sup>2</sup> Flexible with Ferrule 0.75 ... 16 mm <sup>2</sup> Flexible 0.75 ... 16 mm <sup>2</sup>
Rated Cross-Section	1 - Solid-Core 0.75 ... 25 mm <sup>2</sup> 4 - Multi-Wired 0.75 ... 16 mm <sup>2</sup>
Wire Stripping Length	12 mm

Terminal Type	Screw Terminals
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## Electrical

Tripping Characteristic	C
Rated Operational Voltage	acc. to IEC 60898-1 240 V
Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC/EN 60664-1 500 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	4 kV
Input Voltage Type	AC
Rated Current (I <sub>n</sub> )	16 A
Rated Residual Current	30 mA
Rated Short-Circuit Capacity	6 kA
Rated Conditional Short-Circuit Current (I <sub>nc</sub> )	10 kA
Rated Frequency (f)	50 / 60 Hz
Power Loss	Average per Pole 2.3 W Phase Pole 3.4 W Neutral Pole 1.2 W Total 4.5 W
Overvoltage Category	III

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## Material Compliance

RoHS Declaration	9AKK106713A5588
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20211115
REACH Declaration	9AKK108467A9482
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20240429
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Consumer

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## Environmental

Ambient Air Temperature	Operation -25 ... 55 °C
Reference Ambient Air Temperature	30 °C
Degree of Protection	IP20 IP40
Pollution Degree	2
Environmental Conditions	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
Resistance to Vibrations	20 Cycles with Load 0.8 In: 1g or 1mm 50 ... 150 ... 5 Hz
Resistance to Shock acc. to IEC 60068-2-27	25g 2 shocks 13 ms
Environmental Information	2CSC422002K2701

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## Dimensions

Width in Number of Modular Spacings	2
Product Net Width	35 mm
Product Net Height	85 mm
Product Net Depth / Length	69 mm
Product Net Weight	200 g
Built-In Depth (t <sub>2</sub> )	69 mm

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## Engineering

EPLAN Data	9AAC554444_EPLAN
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## Ordering

Package Level 1 Units	box 48 piece
Package Level 1 Gross Weight	9860 g

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## Certificates and Declarations

ABS Certificate	9AKK107991A2823
CB Certificate	9AKK107492A6060
CCC Certificate	9AKK107492A6067
Declaration of Conformity - CE	9AKK106713A5588
DNV GL Certificate	9AKK107680A3457 9AKK107680A3456
EAC Certificate	9AKK107492A6071 9AKK107991A7755
GOST Certificate	9AKK107992A1640
KEMA Certificate	9AKK107492A6076
ÖVE Certificate	9AKK107492A6085
RMRS Certificate	9AKK107680A3454 9AKK107680A3455
SEV Certificate	9AKK107680A1558 9AKK107680A1560
VDE Certificate	9AKK107492A6092

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## Installation

Instructions and Manuals	9AKK107492A6006
Mounting Type	DIN-Rail
Mounting Position	Any

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## Popular Downloads

Data Sheet, Technical Information	9AKK107492A6187
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## External Classifications and Standards

ETIM 9	EC000905 - Earth leakage circuit breaker
ETIM 10	EC000905 - Earth leakage circuit breaker
eClass	V11.0 : 27142207
Object Classification Code	F
Standards	IEC/EN 61009-1, IEC/EN 61009-2-1

## Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
2CSS200911R0001	S2C-UA 12 DC Undervoltage release	S2C-UA 12 DC	1	piece
2CSS200911R0002	S2C-UA 24 AC Undervoltage release	S2C-UA 24 AC	1	piece
2CSS200911R0003	S2C-UA 48 AC Undervoltage release	S2C-UA 48 AC	1	piece
2CSS200911R0004	S2C-UA 110 AC Undervoltage release	S2C-UA 110 AC	1	piece
2CSS200911R0005	S2C-UA 230 AC Undervoltage release	S2C-UA 230 AC	1	piece
2CSS200911R0006	S2C-UA 400 AC Undervoltage release	S2C-UA 400 AC	1	piece
2CSS200911R0007	S2C-UA 24 DC Undervoltage release	S2C-UA 24 DC	1	piece
2CSS200911R0008	S2C-UA 48 DC Undervoltage release	S2C-UA 48 DC	1	piece
2CSS200911R0009	S2C-UA 110 DC Undervoltage release	S2C-UA 110 DC	1	piece
2CSS200911R0010	S2C-UA 230 DC Undervoltage release	S2C-UA 230 DC	1	piece
2CDS200912R0001	S2C-H6R Auxiliary Contact 1CO	S2C-H6R	1	piece
2CDS200922R0001	S2C-S/H6R Universal Auxiliary/Signal Con	S2C-S/H6R	1	piece
2CDS200946R0001	S2C-H6-11R Auxiliary contact 1NO/1NC	S2C-H6-11R	1	piece
2CDS200946R0002	S2C-H6-20R Auxiliary contact 2NO	S2C-H6-20R	1	piece
2CDS200946R0003	S2C-H6-02R Auxiliary contact 2NC	S2C-H6-02R	1	piece
2CDS200970R0031	S2C-H01 Bottom-fitting auxiliary contact 1NC	S2C-H01	1	piece
2CDS200970R0032	S2C-H10 Bottom-fitting auxiliary contact 1NO	S2C-H10	1	piece
2CSS200910R0005	S2C-OVP1 Overvoltage release	S2C-OVP1	1	piece
2CSS200993R0005	S2C-OVP2 Overvoltage release	S2C-OVP2	1	piece

## Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Residual Current Devices RCDs → Residual Current Circuit Breakers with Overcurrent Protection RCBO

